

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A series collinear antenna segment, including a plurality of radiating elements and inter-element phasing sections arranged alternately on a single sided elongated substrate, wherein said segment is adapted to be operatively curved in an at use configuration about a longitudinal axis running substantially along the length of said segment, and wherein said inter-element phasing sections are operatively adapted to allow said radiating elements to radiate electromagnetic radiation substantially in phase over an intended range of frequencies.
2. A series collinear antenna segment as claimed in claim 1, wherein said substrate is flexible.
3. A series collinear antenna segment as claimed in claim 1, wherein said substrate includes an adhesive for affixing said substrate to a surface.
4. A series collinear antenna segment as claimed in claim 1, wherein said substrate is a radome and said segment is arranged on an inner surface of said radome.
5. A series collinear antenna segment as claimed in claim 1 wherein said inter-element phasing section is arranged offset laterally and to one side of a longitudinal axis running substantially along the centre of said substrate such that said radiating elements and said inter-element phasing sections are operatively facing substantially perpendicular to each other.
6. A series collinear antenna segment as claimed in claim 2 wherein said inter-element phasing section is arranged offset laterally and to one side of a longitudinal axis running substantially along the centre of said substrate such that the angle between a tangent to the curved radiating element at the element centre and said inter-element phasing section can be adjusted by varying the degree of curvature of the flexible substrate in order to adjust the degree of coupling between the inter-element phasing section and the radiating element from a minimum of 90 degrees to a larger value at less than 90 degrees.

7. A series collinear antenna segment as claimed in claim 1 wherein said inter-element phasing section includes a conductive track, said conductive track arranged to follow a serpentine path.
8. An end fed series collinear antenna incorporating at least one series collinear antenna segment as claimed in claim 1.
9. A centre-fed collinear antenna incorporating at least one series collinear antenna segment as claimed in claim 1.